PRODUCT DATASHEET

Three-in-One Laboratory Gas Generator: Hydrogen, Nitrogen and Zero Air

One cabinet that supplies hydrogen, nitrogen and zero air to GC and GC-MS

Product page





Close-up: three regulated outlets and controller

OVERVIEW

The Tech Inc. Three-in-One Laboratory Gas Generator: Hydrogen, Nitrogen and Zero Air supplies the three gases a gas chromatograph needs from one cabinet. A PEM electrolyser makes hydrogen for the flame and carrier, a membrane or PSA module makes nitrogen for make-up gas, and a catalytic unit makes zero air for the detector, each with its own regulator, purity protection and alarm.

TYPICAL DESIGN DATA

Hydrogen	PEM, to about 500 mL/min
Nitrogen	Membrane or PSA, purity for make-up gas
Zero air	Catalytic, hydrocarbon-free
Codes and standards	Electrical to IEC 61010-1; EMC to IEC 61326-1
Outlets	Three regulated outlets with gauges
Safety	Hydrogen leak detection and shut-down
Electrical	Single-phase supply

MODELS AND CAPACITIES

- **TI-LG3-250** – hydrogen about 250 mL/min
- **TI-LG3-500** – hydrogen about 500 mL/min
- **TI-LG3-HZ** – hydrogen and zero air only
- **TI-LG3-R** – rack-mounted

Indicative hydrogen output.

ORDERING CODE

Example **TI-LG3-500**: **500** type: 250, 500, HZ or R.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: rack mounting; second GC outlet set; annual service kit; remote alarm contact.

KEY ADVANTAGES

- **Three gases** – one cabinet
- **Safe** – leak detection and shut-down
- **No cylinders** – generated on demand
- **Matched** – to GC flows

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